

LISTING OF THE CLAIMS

This listing of claims will replace the prior version of claims in the application.

What is claimed is:

- 1 1. (Original) A magnetic head supporting structure, comprising:
2 a magnetic head support structure component having a surface with fewer than 40
3 inclusions having largest dimension between 0.5 μm and 2 μm , per square millimeter.
- 1 2. (Original) A magnetic head supporting structure comprising:
2 a magnetic head support structure component having a surface with fewer than 40
3 inclusions having hardness 4 or higher on Mohs' Scale and having largest dimension between
4 0.5 μm and 2 μm , per square millimeter.
- 1 3. (Withdrawn) A magnetic head supporting structure comprising:
2 a magnetic head support structure component comprising remelted metal.
- 1 4. (Withdrawn) The magnetic head supporting structure of claim 3 wherein the
2 component comprises a swage mount.
- 3 5. (Withdrawn) The magnetic head supporting structure of claim 3 wherein the
4 component comprises a magnetic head suspension spring.
- 1 6. (Withdrawn) The magnetic head supporting structure of claim 3 wherein the
2 component comprises a magnetic head actuator arm.

1 7. (Withdrawn) The magnetic head supporting structure of claim 3 having a surface
2 with fewer than 40 inclusions having largest dimension between 0.5 μm and 2 μm , per square
3 millimeter.

1 8. (Withdrawn) The magnetic head supporting structure of claim 3 having a surface
2 with fewer than 40 inclusions having hardness 4 or higher on Mohs' Scale and having largest
3 dimension between 0.5 μm and 2 μm , per square millimeter.

1 9. (Withdrawn) A magnetic recording head supporting structure comprising:
2 a magnetic head support structure component having one or more regions subjected to
3 plastic deformation during manufacture, at least one of said regions comprising remelted metal.

1 10. (Withdrawn) The magnetic head supporting structure of claim 9 having a surface
2 in at least one of said regions having fewer than 40 inclusions having largest dimension between
3 0.5 μm and 2 μm , per square millimeter.

1 11. (Withdrawn) The magnetic head supporting structure of claim 9 having a surface
2 in at least one of said regions having fewer than 40 inclusions having hardness 4 or higher on
3 Mohs' Scale and having largest dimension between 0.5 μm and 2 μm , per square millimeter.

1 12. (Withdrawn) A method of fabricating a magnetic head supporting structure
2 comprising:
3 a step for reducing inclusions having largest dimension between 0.5 μm and 2 μm and
4 having hardness of 4 or higher on Mohs' Scale.

1 13. (Withdrawn) A method of fabricating a magnetic head supporting structure
2 comprising:

3 reducing inclusions having largest dimension between 0.5 μm and 2 μm ; and
4 inducing plastic deformation in one or more regions of the magnetic head supporting
5 structure.

1 14. (Withdrawn) The method of claim 13 wherein reducing inclusions includes
2 remelting a solid volume of metal.

1 15. (Withdrawn) The method of claim 13 wherein said inclusions are reduced to a
2 point where fewer than 40 inclusions having hardness 4 or higher on Mohs' Scale and having
3 largest dimension between 0.5 μm and 2 μm are present per square millimeter of the surface of
4 the magnetic head supporting structure in at least one of said regions.

1 16. (Withdrawn) The method of claim 14 wherein the remelting is accomplished in
2 the presence of a slag comprising a non-metal oxide.

1 17. (Withdrawn) The method of claim 14 wherein the remelting is accomplished in
2 an evacuated atmosphere.

1 18. (Withdrawn) The method of claim 16 wherein the non-metal oxide comprises
2 calcium bifluoride.

1 19. (Withdrawn) A method to manufacture a swage mount for a magnetic recording
2 head support structure, comprising:
3 remelting stainless steel to reduce inclusions,

4 rolling the stainless steel to an initial thickness between 0.1 mm to 0.5 mm,
5 stamping and forming the rolled stainless steel into the shape of a swage mount, and
6 heat treating the resulting part.

1 20. (Withdrawn) The method of claim 19 wherein the heat treating includes
2 annealing.

1 21. (Withdrawn) The method of claim 19 wherein the remelting is electrosag
2 remelting.

1 22. (Withdrawn) The method of claim 19 wherein the remelting is accomplished in
2 an evacuated atmosphere.

23. (Withdrawn) The method of claim 19 wherein said inclusions are reduced to a
point where fewer than 40 inclusions having hardness 4 or higher on Mohs' Scale and having
largest dimension between 0.5 μm and 2 μm are present per square millimeter of the surface of
the swage mount.

24. (Withdrawn) The method of claim 21 wherein the remelting is accomplished in
the presence of a non-metal oxide.

1 25. (Withdrawn) The method of claim 23 wherein the non-metal oxide comprises
2 calcium bifluoride.